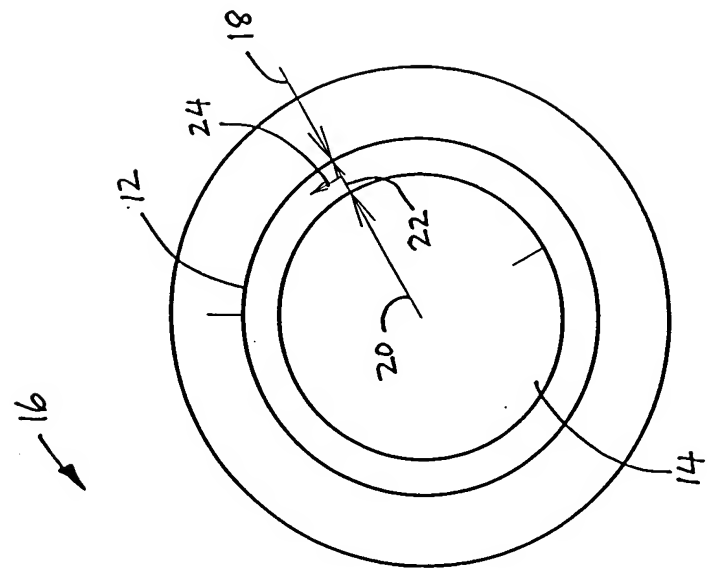


ROTOR FLUX VECTOR MUST POINT AT -90 DEGREES TO REMAIN IN PHASE-LOCK

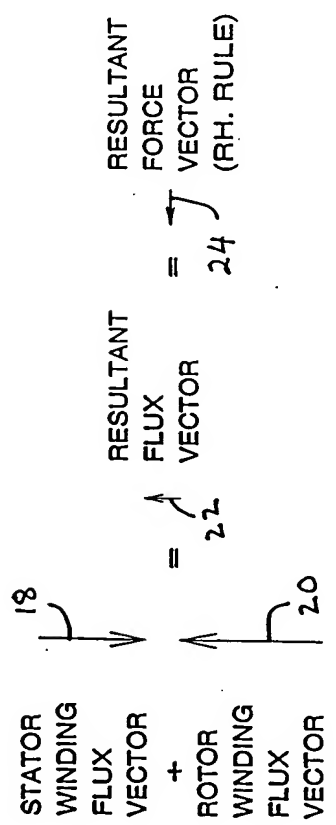
ALL NUMBERS IN DEGREES

FIG. 1



EXAMPLE OF ROTOR FLUX VECTOR MAGNITUDE CALCULATION

CASE:  
STATOR WINDING FLUX VECTOR MAGNITUDE 3 UNITS  
ROTOR WINDING FLUX VECTOR MAGNITUDE 4 UNITS



ROTOR WILL ACCELERATE COUNTERCLOCKWISE

FIG. 2

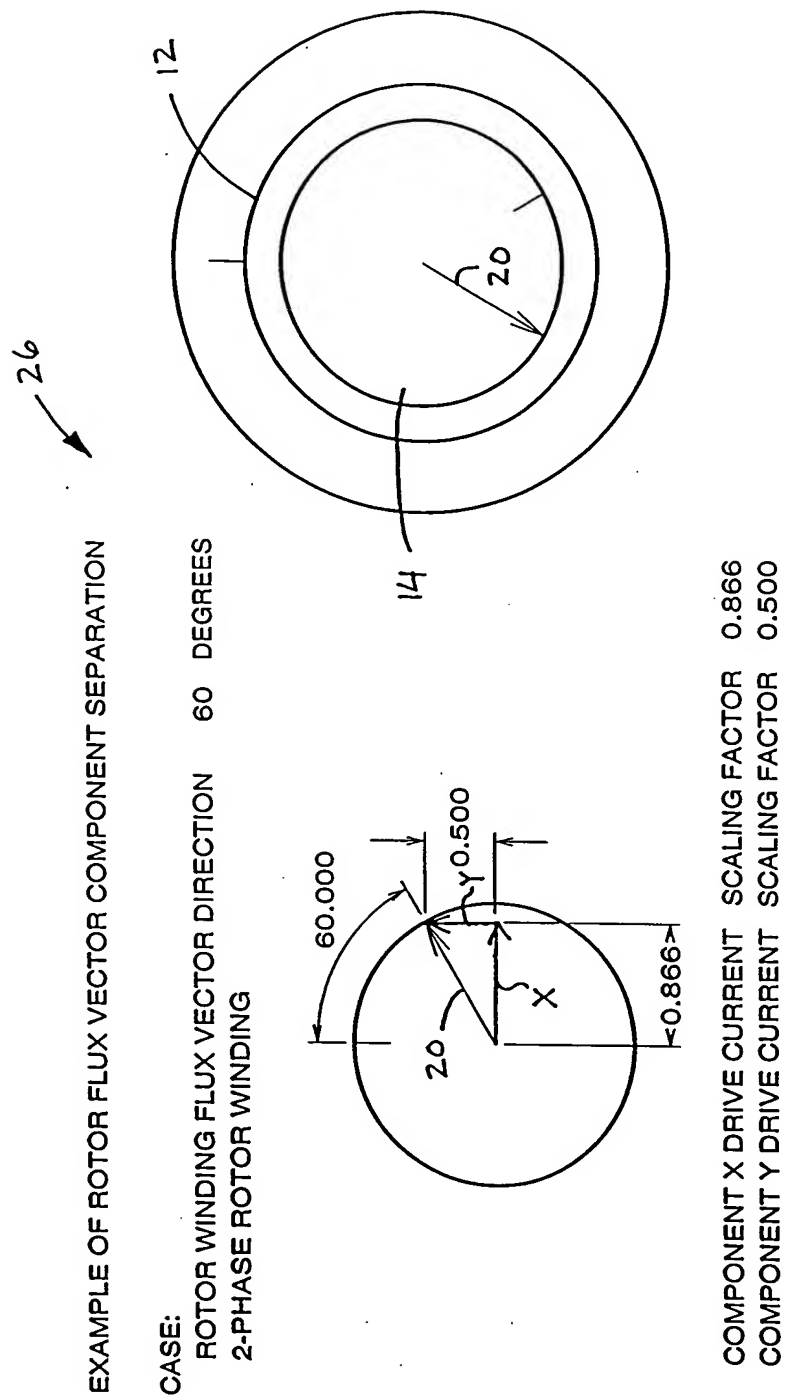


FIG. 3

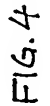


Fig. 4

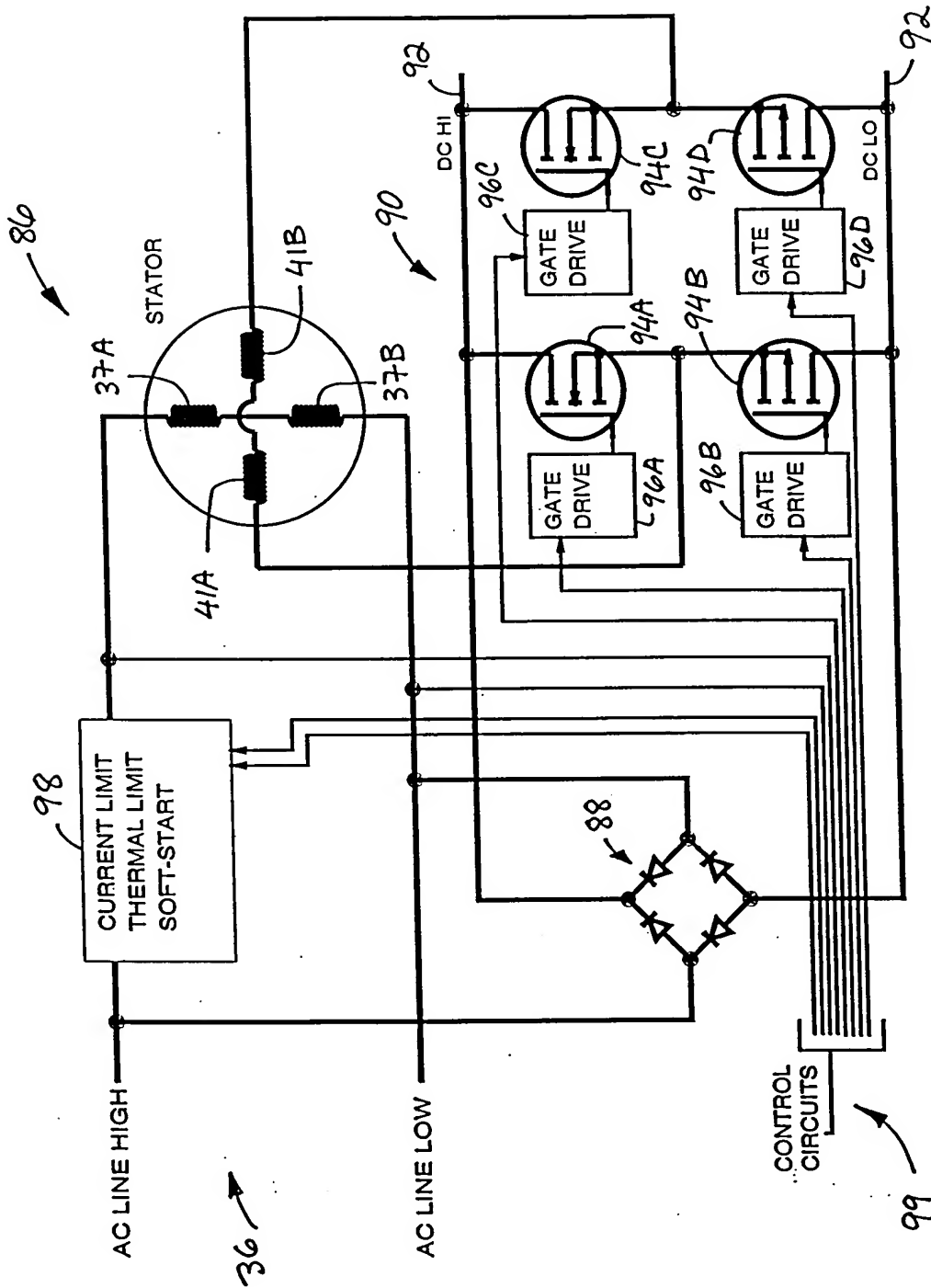


FIG. 5

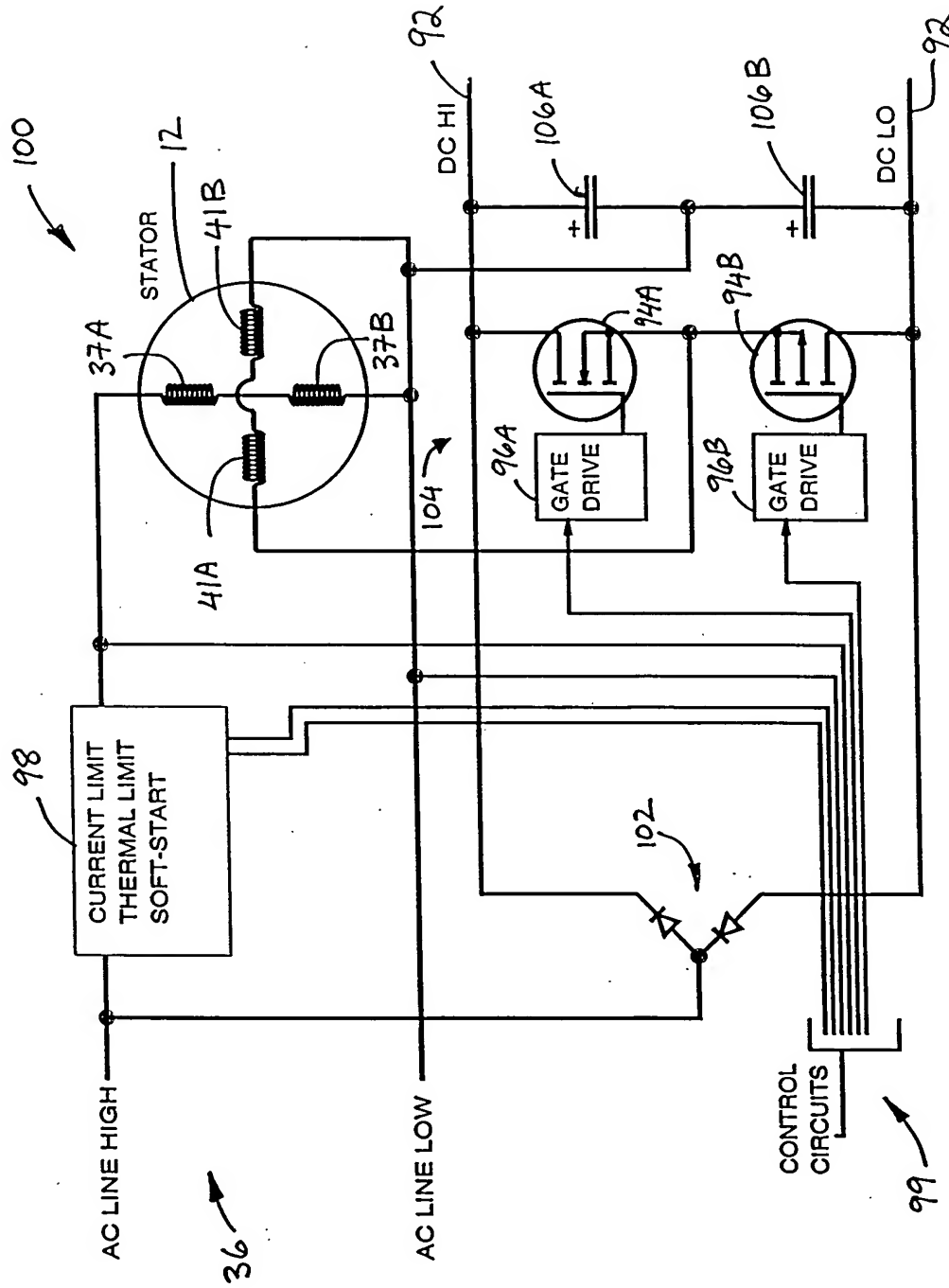


FIG. 6

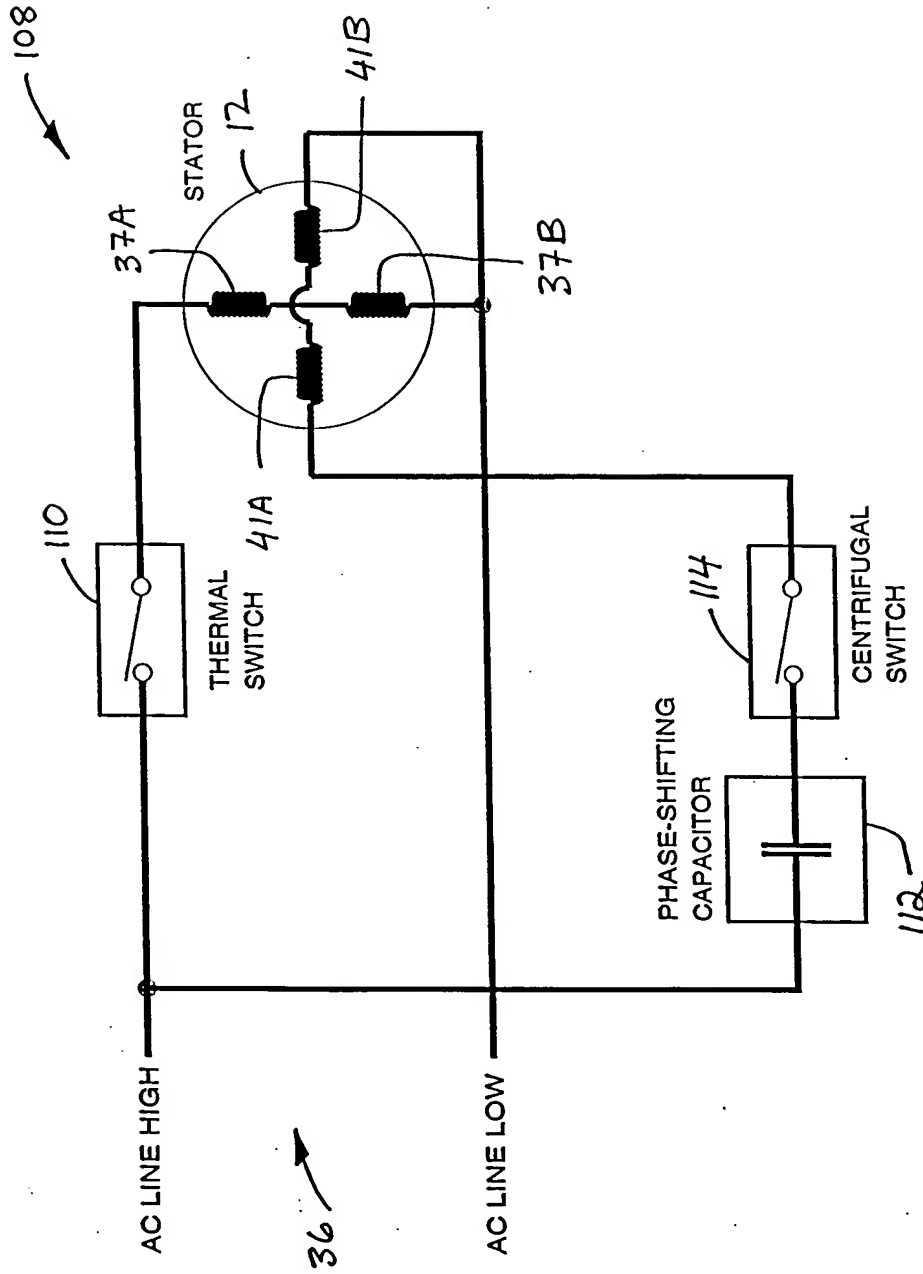


FIG. 7

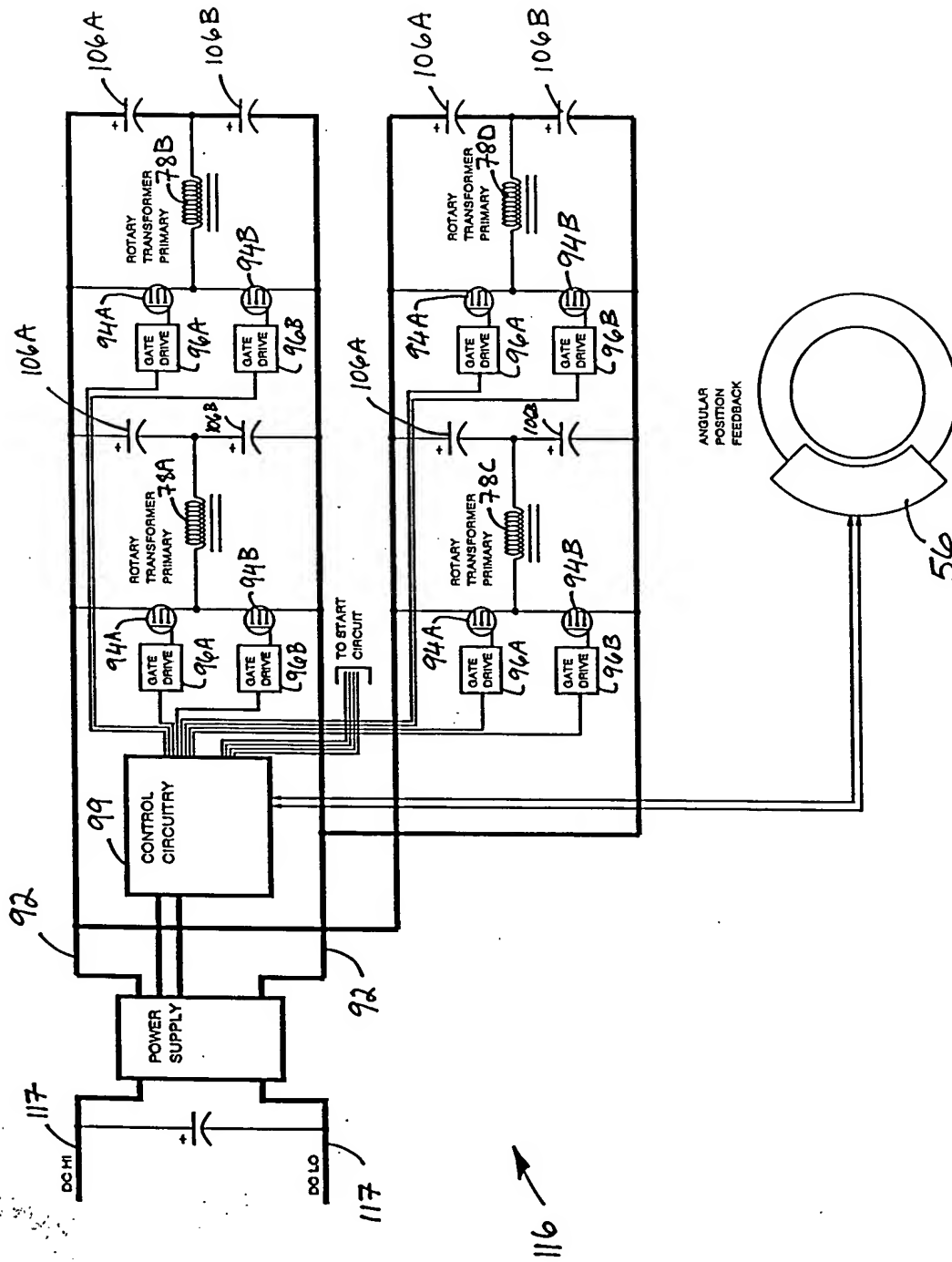


Fig. 8



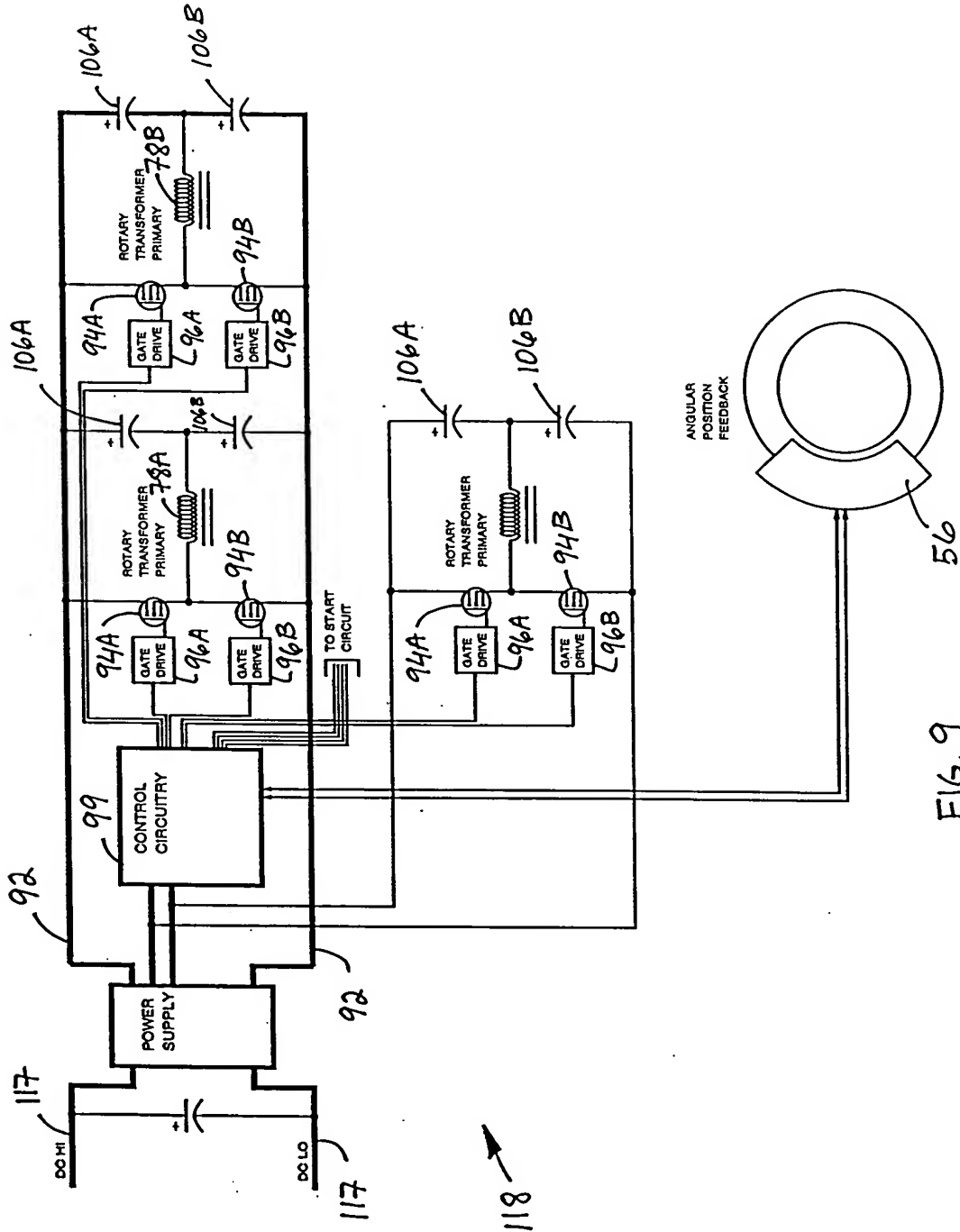
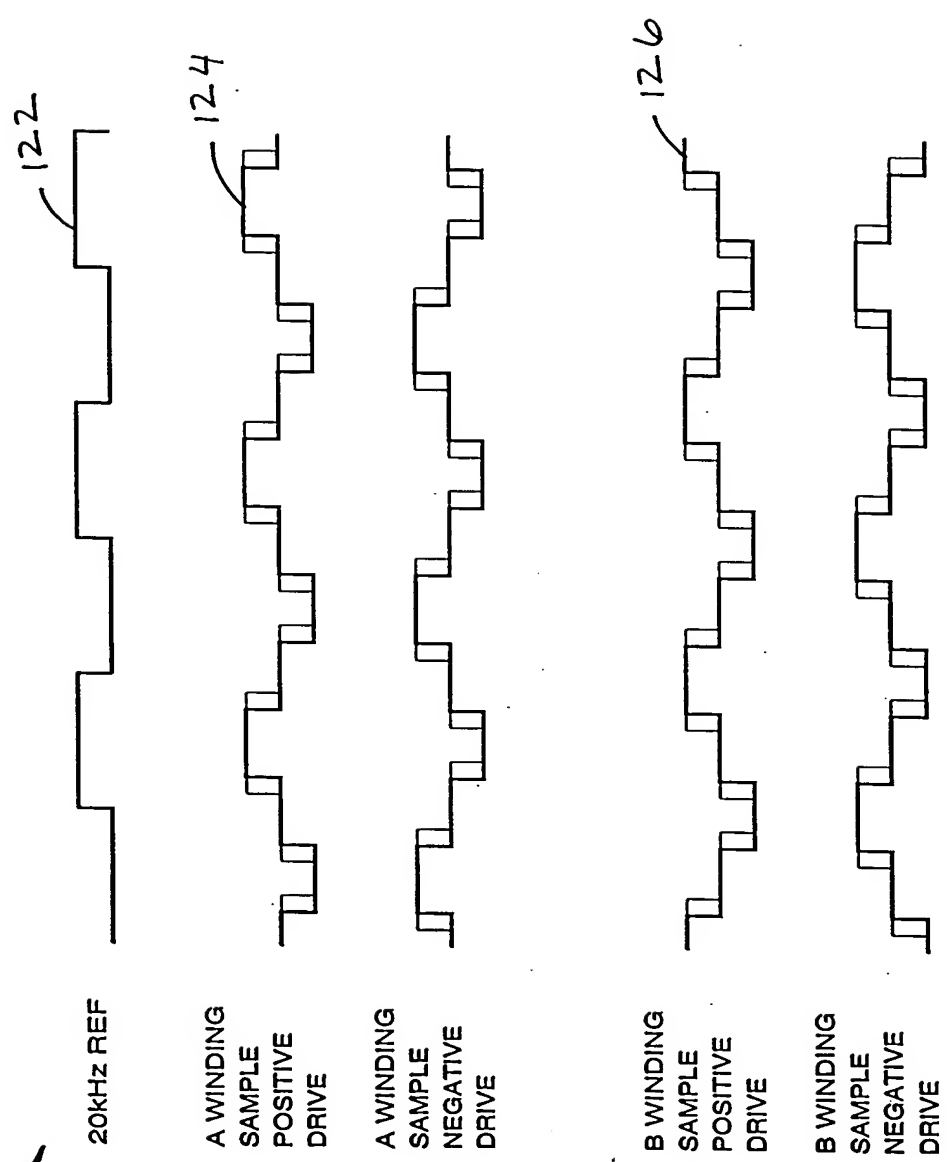


FIG. 9



THREE-TRANSFORMER DRIVE TIMING DIAGRAM

FIG. 10

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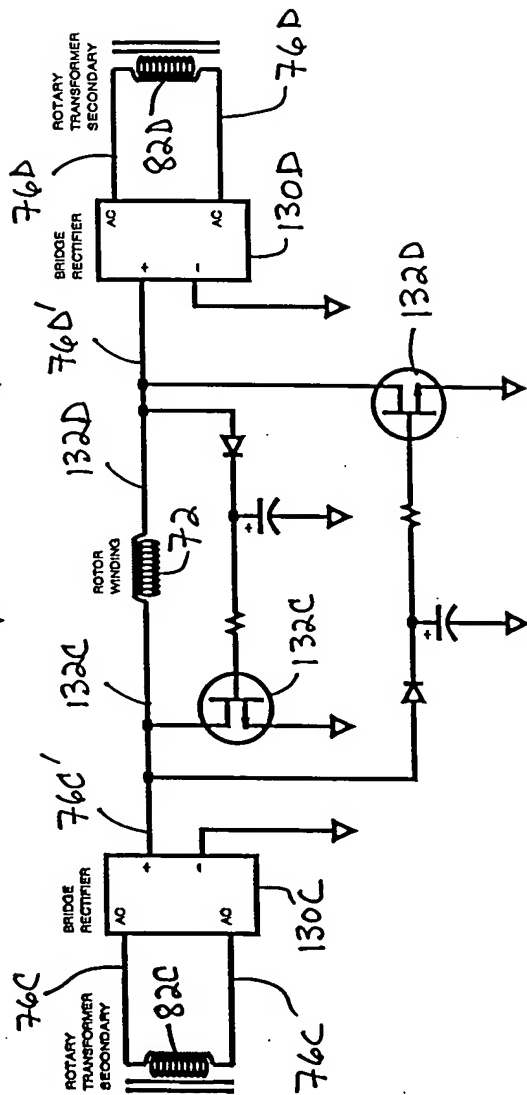
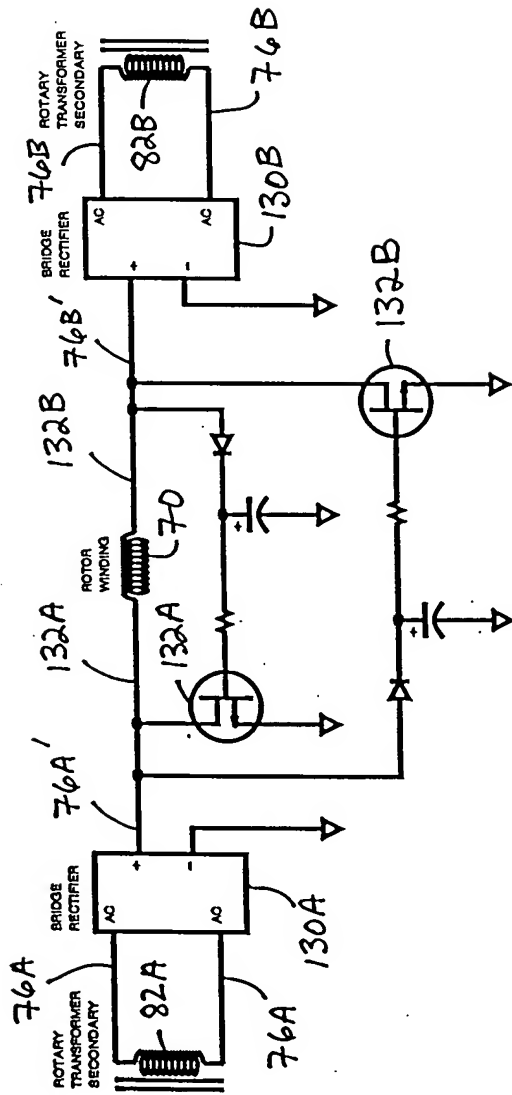


FIG. 11

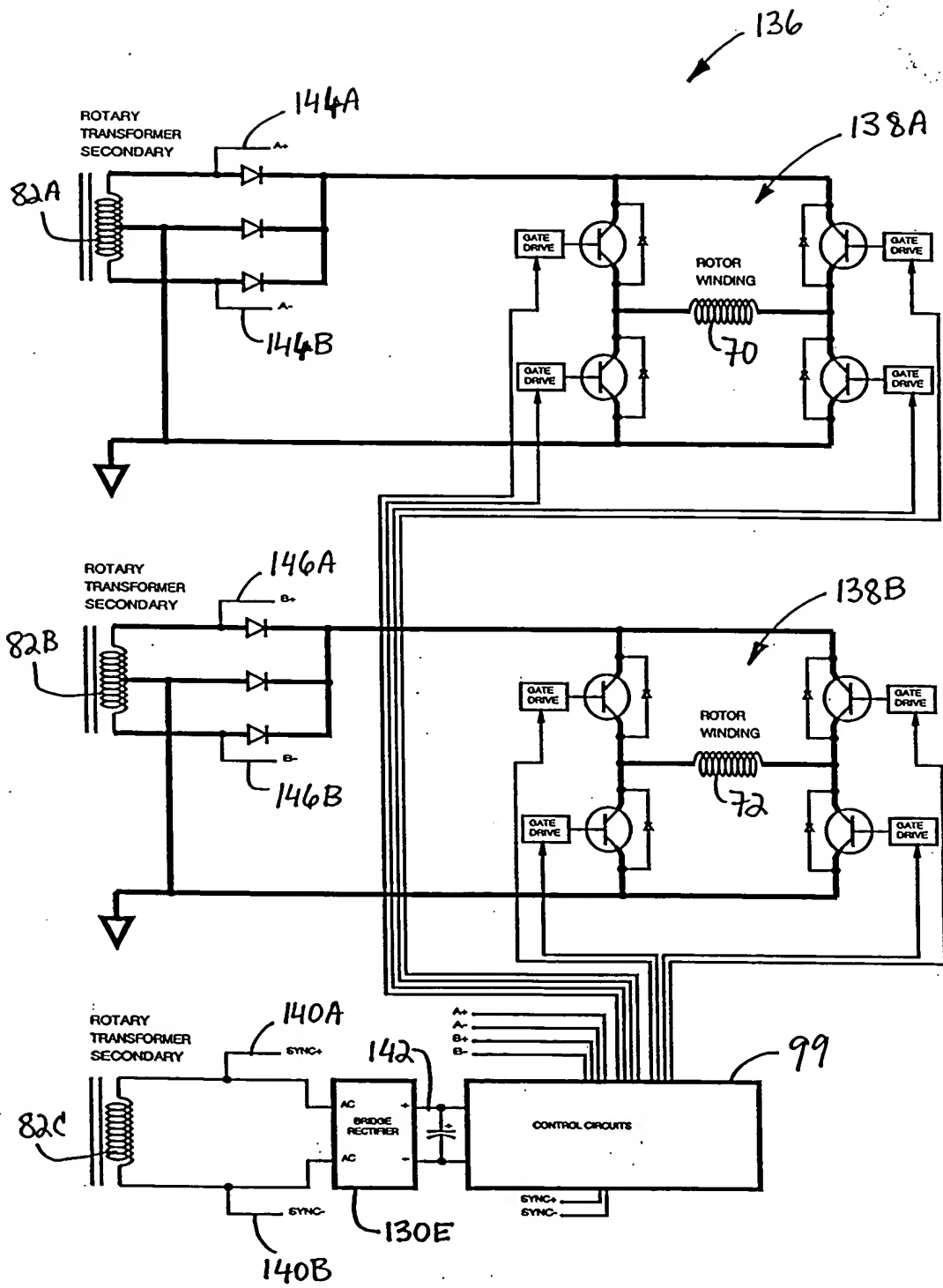
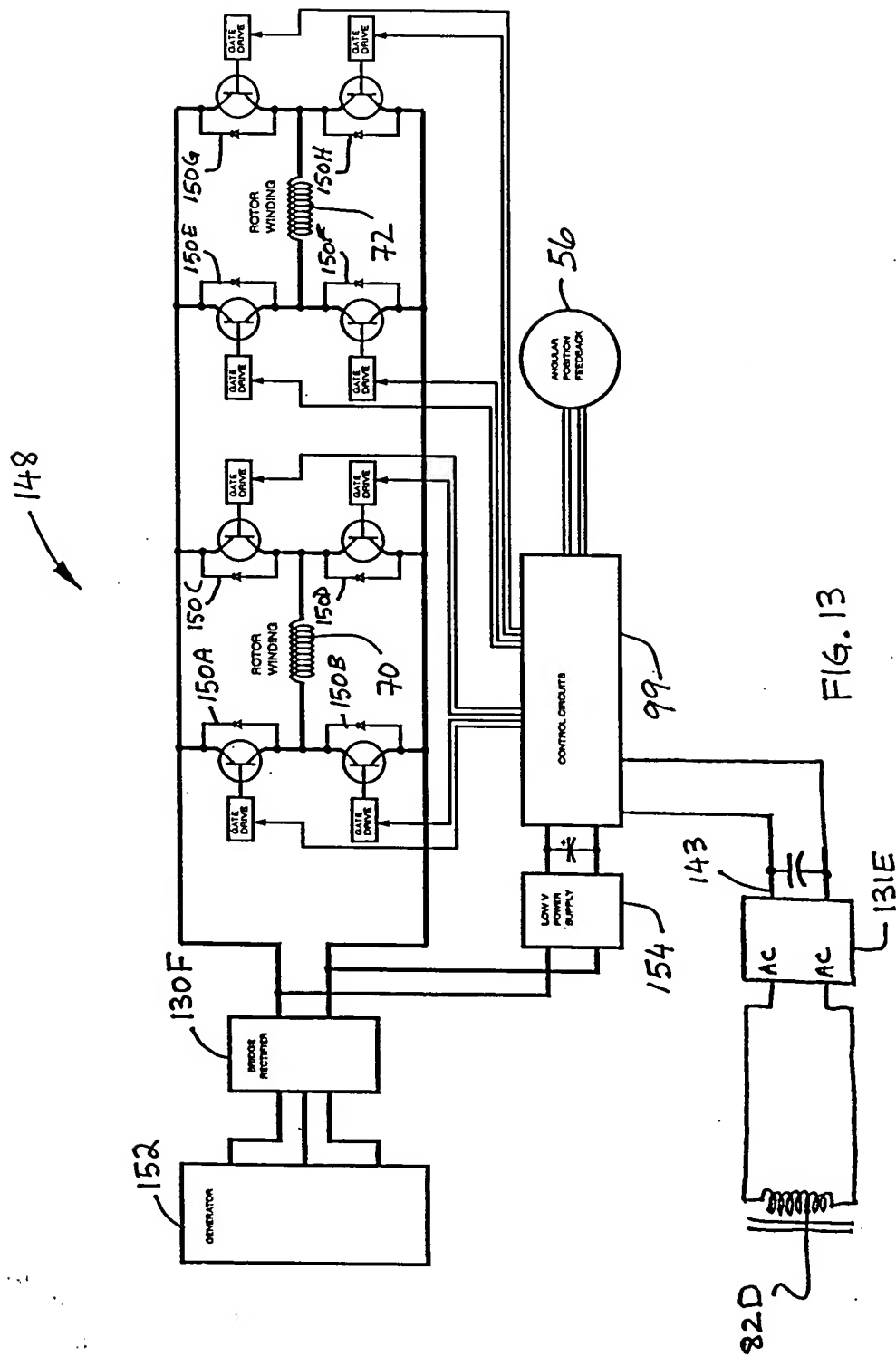
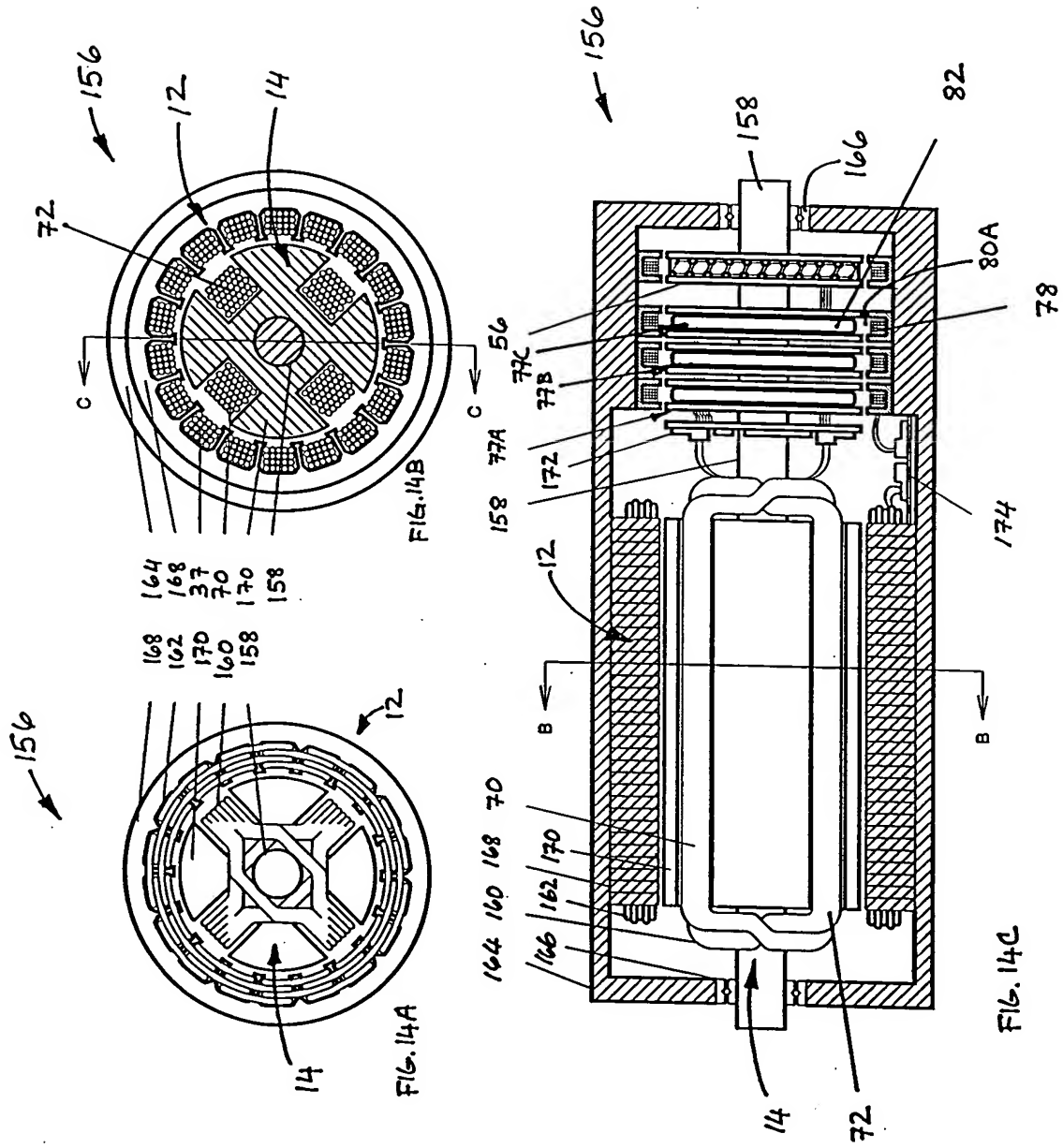
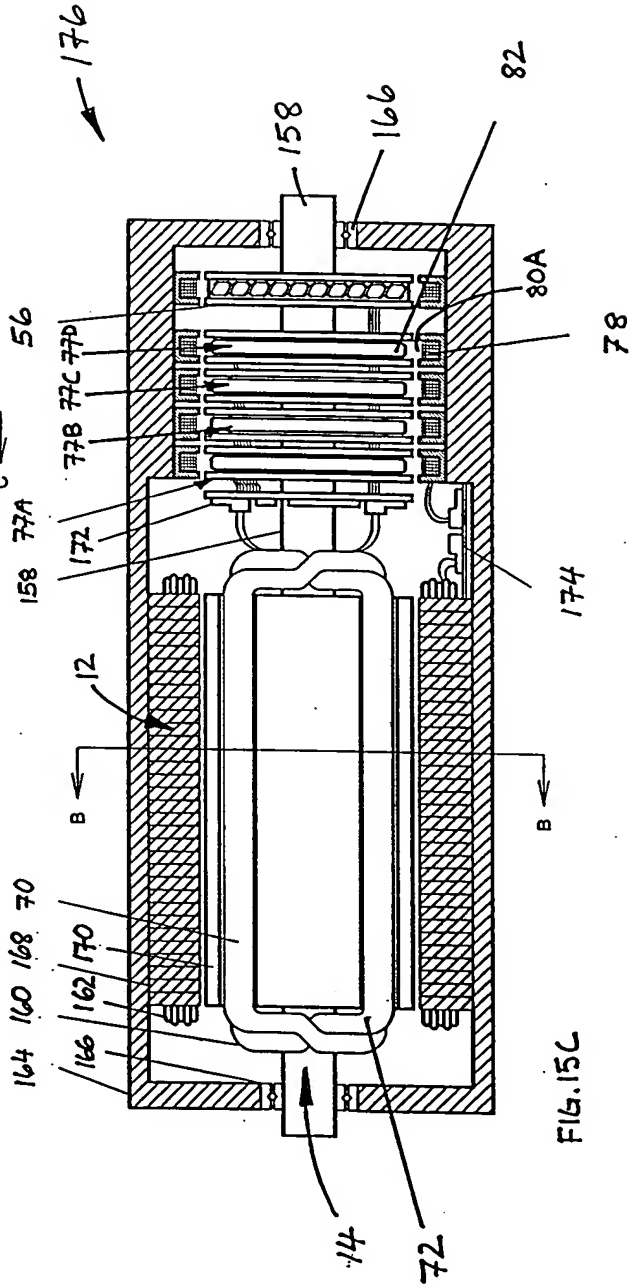
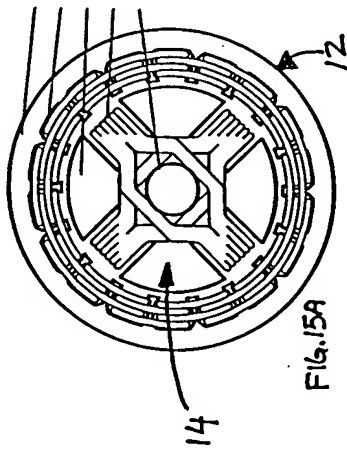
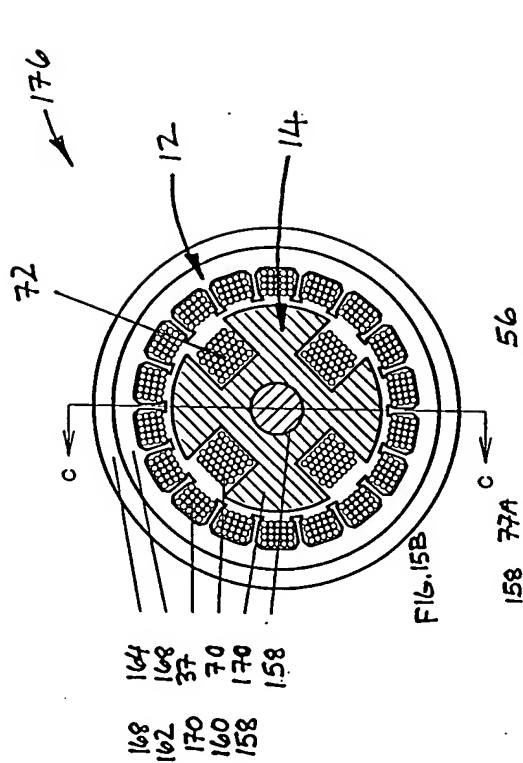


FIG. 12







164 160 168 70

164 160 168 70

158 77A 56

158 77A 56

77B 77C 77D

77B 77C 77D

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162 170

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77B 77C 77D

77B 77C 77D

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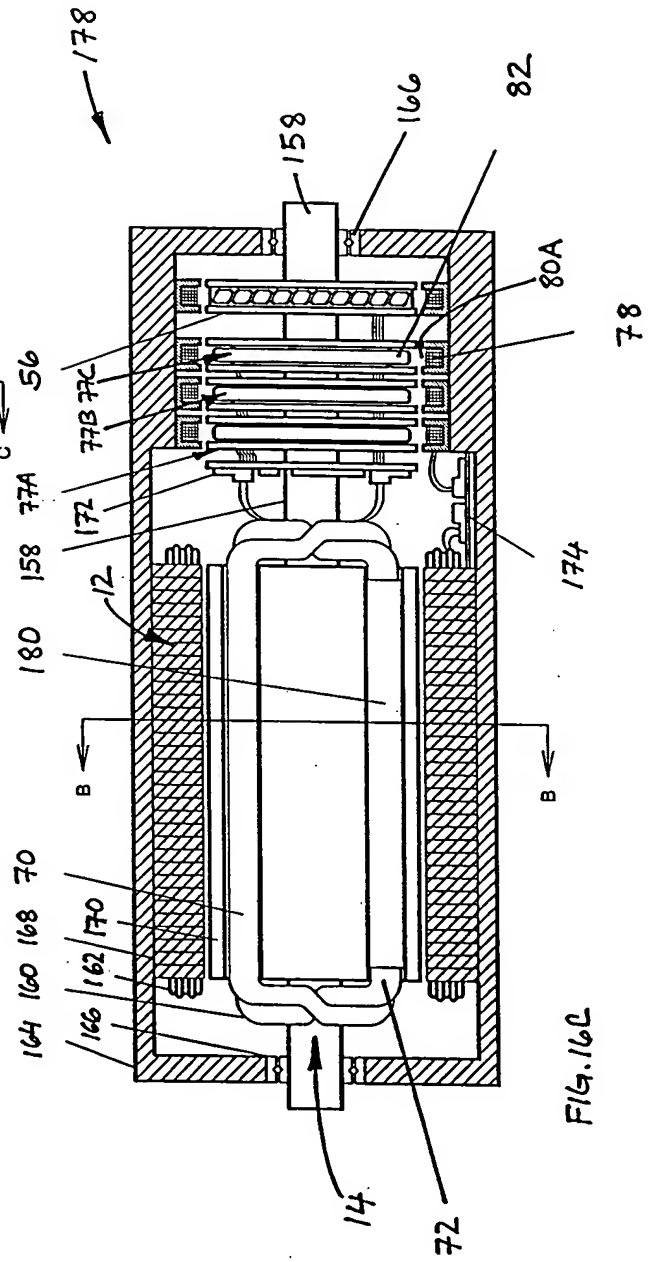
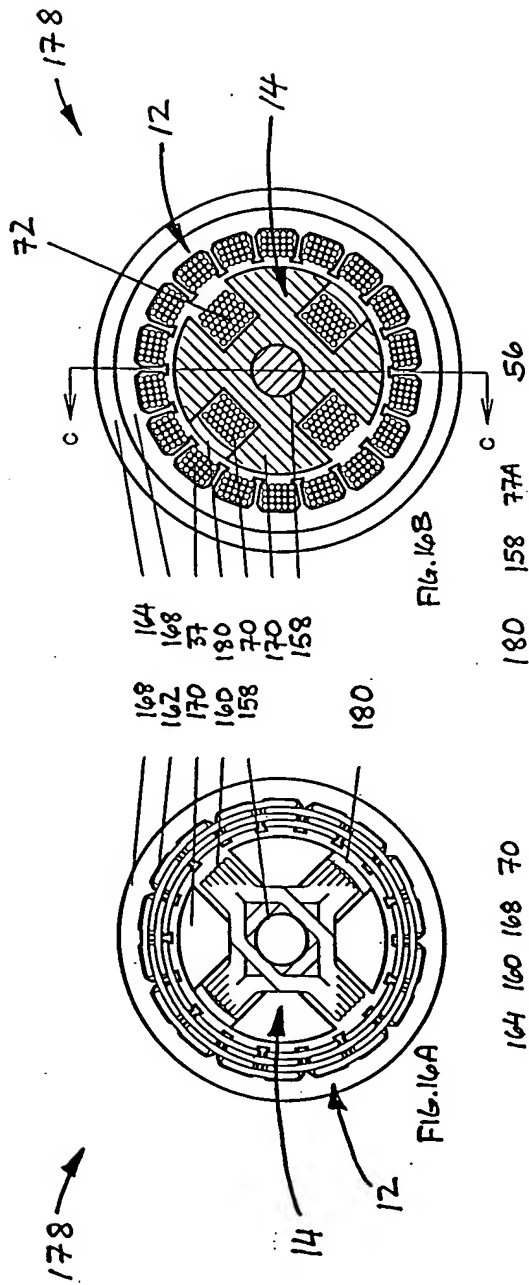
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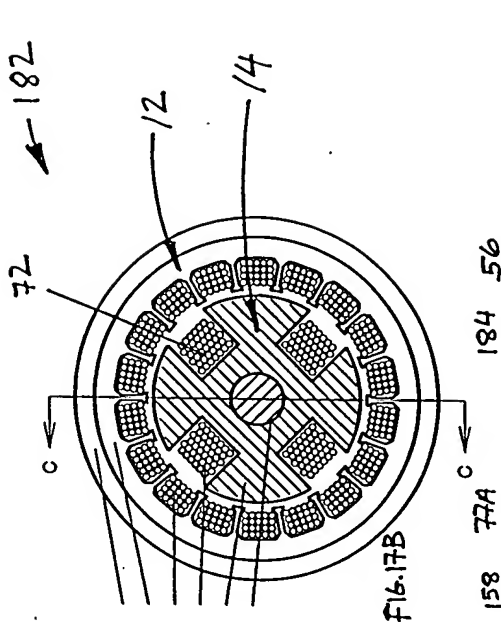
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